

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau(43) International Publication Date
21 December 2000 (21.12.2000)

PCT

(10) International Publication Number
WO 00/78065 A1(51) International Patent Classification⁷: H04Q 7/20, (74) Agent: YOUNG, Philip, Claude; Wilson & Young, P.O. Box 553, Alexandria, NSW 1435 (AU).
H04L 27/10

(21) International Application Number: PCT/AU00/00655

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.

(22) International Filing Date: 9 June 2000 (09.06.2000)

(25) Filing Language: English

(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

(26) Publication Language: English

(30) Priority Data:
PQ0884 10 June 1999 (10.06.1999) AU

(71) Applicant (for all designated States except US): SHELL, Allan, Michael [AU/AU]; 14/166 Belmore Road, Randwick, NSW 2031 (AU).

Published:

— With international search report.

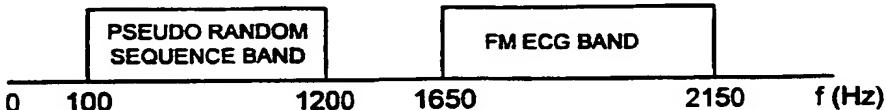
For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(71) Applicants and

(72) Inventors: PLATT, Harry, Louis [AU/AU]; 14/166 Belmore Road, Randwick, NSW 2031 (AU), JANKOV, Vladimir [AU/AU]; 14/166 Belmore Road, Randwick, NSW 2031 (AU).



(54) Title: ACOUSTIC TRANSMISSION USING DIGITAL MOBILE PHONES



WO 00/78065 A1

(57) Abstract: A method of transmitting frequency modulated data signals over a digital mobile phone network which filters the transmitted data signals is disclosed. The method includes the step of providing original said frequency modulated data signals with more than one frequency, whereby the frequency modulated data signals having more than one frequency are preferably also modulated in amplitude. In one form, the frequency modulated data signals having more than one frequency is achieved by generating a pseudo random sequence which does not overlap the frequency band of the FM data signals and mixing the sequence with the original data frequency modulated signals, whereby the pseudo random sequence has a lower frequency band than that of the original data frequency modulated signals.